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Polymerization of Vinyl Cyanide in Water Solutions,
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During the Growth of a Thread-Like Crystal of
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CCT-236-TT

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No 10, 5 pp, Oct 48

"Problem of the Stability of Polymolecular Films: I.
Surface Pressure of Oily Multilayers"

Ya. B. Aron,
Ya. I. Frenkel

To be done by AMO

Ref tele - 7 9 (?)

15 Dec 49

21/49T11

Zhur Fiz Khim XXII, 1146-48, 1948

Theory of Viscosity of Liquids

A. G. Strelnberg (Ural Section, USSR Acad Sci,
Sverdlovsk)

(Wilson Item 2577)

Photopolymerization of Vinyl Compounds, III.
Photopolymerization of Methyl Acrylate, by Kh.
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The Stability of Polymolecular Films. I. The
Surface Pressure of Oil Polylayers, by Ya. B.
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RUSSIAN, no per, Zhur Fiz Khim, Vol XXI, No 10, 1948
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 KAPILLYARNYE YAVLENENIYA (Kapillarynye
 Yavleniya v Kapillyakh). Feb 6, [11] p. 7 refs. RTS-1776
 Order from L.A. for SLA in \$2.40, ph \$3.30 61-19104

Trans. of Zhurnal Fizicheskoy Khimii (USSR) 1948,
 v. 22, no. 10, p. 1251-1255

A study was made of the variation of the wetting angle of water on paraffin wax with drop size, inclination of the wax surface, and deformation of the drop. The results are considered in the light of the physical mechanism of adhesion of drops to a solid surface. The rolling of drops down an inclined surface is also discussed. The influence of electrical potential differences on the contact angle was demonstrated for the case of mercury, but not for solid metallic surfaces. The observed changes in contact angle and the qualitative picture of the deformation of drops on compression, evaporation, and inclination of the surface, indicate the existence of a definite equilibrium value of the contact angle and of its invariable reproducibility. (Author)

61-19104

- I. Drops - Surface properties
- I. Aron, Ya. B.
- II. Pavlova, M. V.
- III. RTS-1776
- IV. Department of Scientific and Industrial Research (G. B. H.)

100103051

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Office of Technical Services
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Vol XXII, No 11, 13 $\frac{1}{2}$ pp,
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"Experimental Proof of the Theory of Supersaturation:
III, Low-Temperature Oxidation Reactions on Nickelous
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S. Z. Roginskiy
T. F. Tselinskaya

AEC Tr #384

Brookhaven

Sci Info Service

DRB Canada

January 12, 1951 (Copy in files)

56/49T25

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Entropy of Ions in a Crystal and Solubility of Salts

A. F. Kapustinskiy and K. B. Yatsimirskiy (Inst of Gen
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(Wilson Den 2785)

Handwritten:
Yatsimirskiy, K. B.
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S. Z. Roginskii

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V. I. Gol'denskiy (Inst of Chemical Physics, Acad Science
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- II. SLA R-02190
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Theory of the Surface Tension of Metals
H. E. Glauber

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On the theory of the surface energy of heteropolar crystals

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Euratom

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Spatial Distribution of Precipitates on
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Vol. XXIII, No 4, 18 pp, 1949

"Active Ensemble of Platinum in Oxidizing-Reducing and Hydrogenation Processes"

N.I. Kobozev

N.A. Reshetovskaya

Translated
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The Intramolecular Hydrogen Bond and the Dipole
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13 pp.

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A. Petrova, 23 pp.

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Author: Alan 845
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Karpachev, S., Rempel', S., and Jordan, E.
 INVESTIGATION OF ANODE OVERVOLTAGE IN
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[1963] 2p. 1 ref.

Order from OTS or SLA \$1.60

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Trans. of Zhurnal Fizicheskoi Khimii (USSR) 1949,
 v. 23 no. 4 p. 422-427.

DESCRIPTORS: *Aluminum compounds, Oxides.
 *Cryolite, Mixtures. *Fused materials. *Electric
 potential. Anodes.

The anode overvoltage in fused mixtures of cryolite with
 alumina on carbon, graphite, and platinum electrodes
 was investigated. It was shown that the anode potential
 varies as a function of the current density according
 to the equation $\eta = a + b \lg i$. The numerical values
 of the coefficients a and b were determined for all of the
 cases investigated. (Author)
 (Chemistry--Physical, TT, v. 10, no. 11)

1. Title: Overvoltage
 I. Karpachev, S.
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The Anodic Evolution of Oxygen on Nickel in
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V. A. Kargin
T. I. Sogolova

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Brookhaven

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Zhuravskiy, I. I.

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Optical Study of Hydrogen Bond of Acetylacetone + its
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D. N. Shigorin

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Dependence of Activity Coefficient on the Dielectric
Constant and the Basicity of the Medium

N. A. Izmailov (Dept of Phys Chem, Gorkiy State
University, Kharkov)

(Wilson Den 3860)

SLA R. 2225

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13 p.

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Order from OCS or SIA \$1.10

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DESCRIPTORS: *Phase studies, Liquids, Gases, Pres-
sure, *Nitrogen, *Hydrogen, *Benzene, Solubility.

(Chemistry - Physical, IT, v. 10, no. 6)

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DESCRIPTORS: Oxides, Films. *Iron, *Coatings.
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